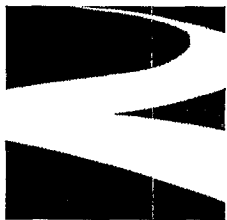


CALFED System Integrity Program

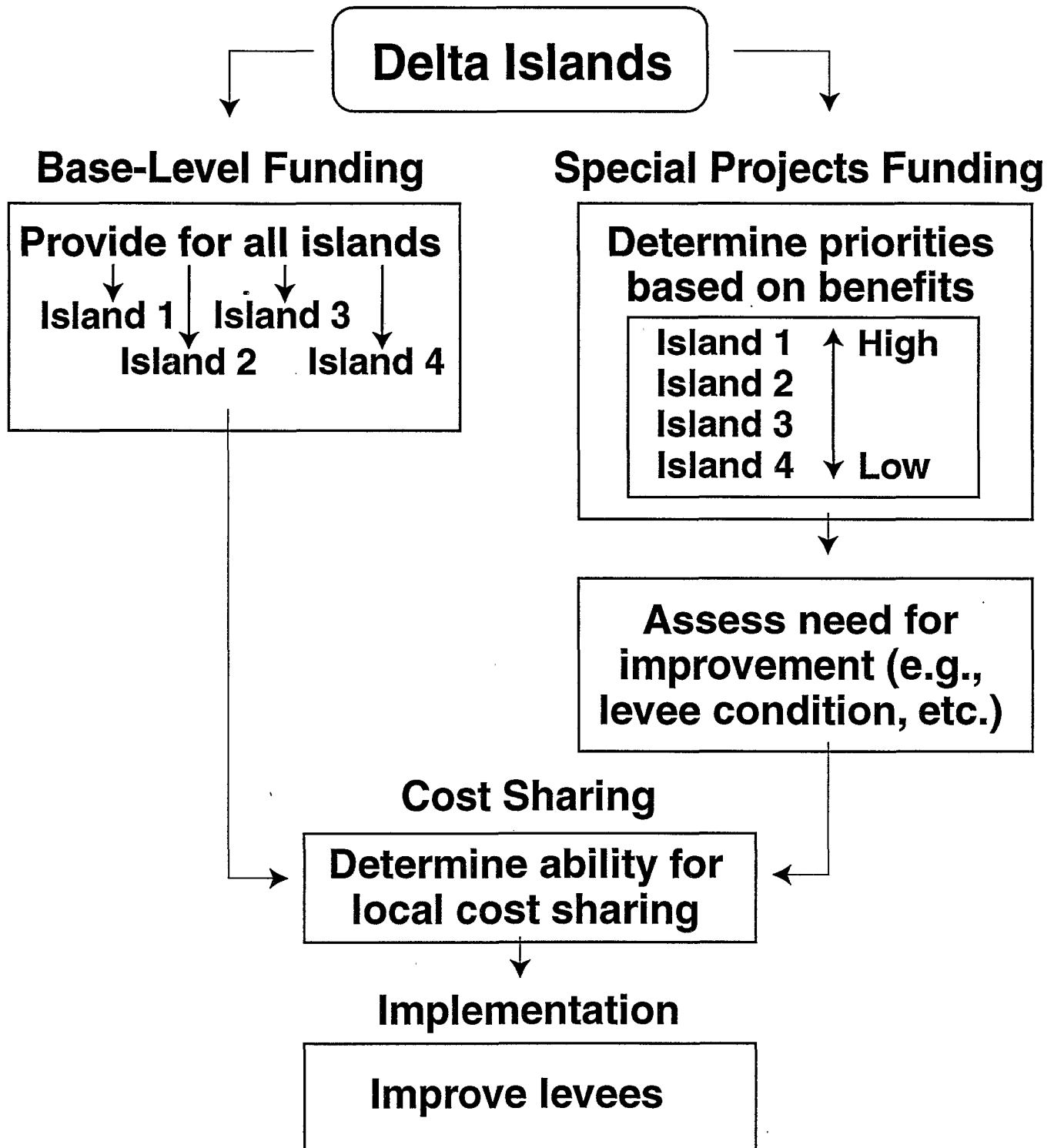
Island Prioritization for Special Projects



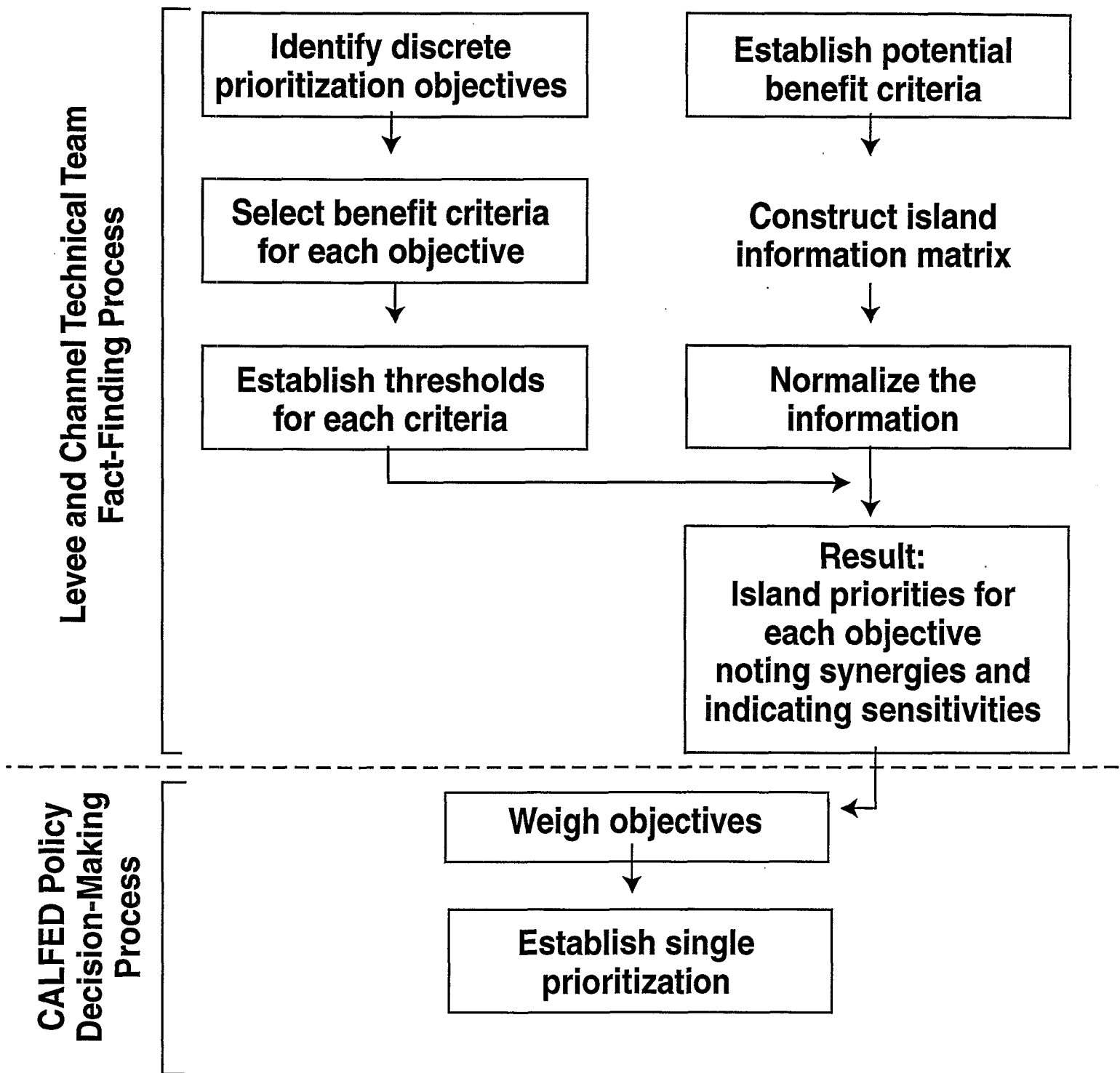
CALFED
BAY-DELTA
PROGRAM

December 17, 1996
Walnut Grove

CALFED System Integrity Program Levee-Improvement Funding



CALFED System Integrity Program Prioritizing Islands Based on Benefits



Island Prioritization for Special Projects

Draft Objectives

Life and Personal Property

Water Quality

Agricultural Production

Recreation

Cultural Resources

Ecosystems

Infrastructure of Local Concern

Infrastructure of Statewide Concern

Adjacent Island Resources

Island Prioritization for Special Projects

Draft Delta Island Evaluation Criteria

- **Population**

- Permanent population
 - Town population
 - Recreation use

- **Public Infrastructure**

- Federal and State highways
 - County roads
 - Value of damageable roads
 - Water supply conveyance
 - State or regional parks
 - Flood-control levees, federal
 - Flood-control levees, local

- **Private Development**

- Housing units
 - Value of damageable housing
 - Residential lands
 - Value of damageable commercial property
 - Commercial lands
 - Commercial-recreation lands
 - Recreation resorts
 - Value of damageable crops
 - Agricultural lands
 - Industrial lands
 - Railroad main lines
 - Natural gas fields and storage
 - Natural gas pipelines
 - Power transmission lines

Island Prioritization for Special Projects

Draft Delta Island Evaluation Criteria (continued)

- **Water Quality**

- Salinity intrusion induced
 - Critical to water quality - SB 34
 - Island volume

- **Cultural Resources**

- Known archaeological sites
 - Known historical sites

- **Habitat and Special-Status Species**

- Native vegetation
 - Wetlands
 - Riparian habitats
 - Agricultural waterfowl habitats
 - Known special-status plant occurrences
 - Known special-status wildlife occurrences
 - Natural resource areas with significant habitat values

- **Other Evaluation Criteria**

- Adjacent acreage at risk
 - Seepage risk

Levee and Channel Technical Team

Levee Associated Recreation Sub-Team

- identify appropriate places for recreational developments
- propose recreational facilities compatible with other Delta benefits and users
- enhance and improve current opportunities

In-Channel Islands Sub-Team

- develop a guidebook that includes: site-specific criteria; priorities; adaptive management; regulatory processes; funding sources, research monitoring program; land use management information; and ecological restoration techniques
- framework for protecting and restoring in-channel islands
- prioritize and implement demonstration projects

Emergency Response Sub-Team

- emergency fund
- multi-agency response team
- qualifying standards
- documentation criteria
- response levels/stages
- legislative recommendations
- standby contracts

Land Subsidence Sub-Team

- research into "capping" and methods to maximize accretion
- demonstration projects
- GIS mapping of subsidence parameters
- subsidence control plan

Seismic Susceptibility Sub-Team

- perform field and laboratory geotechnical studies
- install surface and sub-surface strong motion sensors
- create levee damage susceptibility map
- continue Phase II and Phase III research

Beneficial Reuse of Dredge Material Sub-Team

- propose recommendations for legislative action to promote beneficial reuse of dredge material
- dredge material testing protocol and sediment quality criteria
- GIS database for management of dredge material data
- Dredge Material Management Office to coordinate projects
- sediment traps
- rehandling facilities
- cost sharing (w/Corps, Ports)
- long-term management plan
- conduct further demonstration projects

Levee Associated Habitat Sub-Team

- coordinate with CALFED Ecosystem Restoration Technical Team
- link habitat restoration with flood control activities
- propose levee associated habitat development techniques
- determine habitat constraints

Delta Improvement Plan

Levee Subventions (Base-Line Funding) Program

- improve funding reliability
- cost sharing
- maintenance funding
- long term levee standard (PL-99)
- long term upgrade funding
- **emergency response**

Emergency Response

- emergency fund
- multi-agency response team
- qualifying standards
- documentation criteria
- ESA responsibilities
- response levels/stages
- compliance with Water Code
- compliance with SEMS
- standby contracts

Special Habitat Improvements and Flood Control Projects Program

- implementation priorities
- cost sharing
- levee improvements based on public benefit
- improve terrestrial habitat
- improve aquatic habitat
- improve recreation
- **subsidence control**
- **beneficial reuse**

Subsidence Control

- research
- demonstration projects
- GIS mapping of subsidence parameters
- subsidence control plan

Beneficial Reuse

- multi-agency team (Corps, RWQCB, BCD, DPC)
- economical sources of material
- sediment traps
- rehandling facilities
- cost sharing (w/Corps, Ports)
- long-term management plan
- on-going monitoring plan